

30

<b>Notice of Allowability</b>	Application No.	Applicant(s)
	10/595,264	TABITO ET AL.
	Examiner	Art Unit
	Michael P. Mooney	2883

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to \_\_\_\_\_.
2.  The allowed claim(s) is/are 1-9.
3.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a)  All
  - b)  Some\*
  - c)  None
 of the:
  1.  Certified copies of the priority documents have been received.
  2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5.  CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a)  including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.
  - (b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1.  Notice of References Cited (PTO-892)
2.  Notice of Draftsperson's Patent Drawing Review (PTO-948)
3.  Information Disclosure Statements (PTO/SB/08),  
Paper No./Mail Date 4/3/06
4.  Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5.  Notice of Informal Patent Application
6.  Interview Summary (PTO-413),  
Paper No./Mail Date 20070925.
7.  Examiner's Amendment/Comment
8.  Examiner's Statement of Reasons for Allowance
9.  Other \_\_\_\_\_.

### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Atty. David Metzger (Reg. No. 32,919) on 9/26/07.

In line 9 of claim 1, please replace "on the major surface of said base" with --on a major surface of the heat radiating plate base--.

In line 1 claim 2, please replace "according to claim 2 wherein" with --according to claim 1 wherein--.

In line 23 of claim 6, please replace "in which the major surface of said base" with --in which a major surface of the heat radiating plate base--.

### **REASONS FOR ALLOWANCE**

The following is an examiner's statement of reasons for allowance:

The prior art, either alone or in combination, does not disclose or render obvious a heat radiating plate formed of a metal material exhibiting heat conductivity and having a substrate fitting part for arraying a plurality of said interconnection substrates side-by-side on the same coaxial line on a major surface of the heat radiating plate base, said heat radiating plate having upstanding reflecting plate supports formed as one therewith and extending along the lateral sides of said substrate fitting part; a plurality of reflective sheet pieces each being formed of a sheet material exhibiting reflecting characteristics

as a rectangular piece of a length corresponding to the length of said preset number of said light emitting diodes and a width smaller than the width of said heat radiating plate, each of said reflective sheet pieces including a plurality of guide through-holes through which are passed light emitting parts of said light emitting diodes; and a reflecting plate formed from a plate material exhibiting reflective characteristics to an outer shape approximately equal to the outer shape of said liquid crystal panel, said reflecting plate having a plurality of rows of guide openings in register with said light emitting arrays and through which are passed the light emitting parts of said light emitting diodes; said reflecting sheet pieces being mounted to said heat radiating plates as the light emitting parts of said light emitting diodes are protruded via those of said guide through-holes facing said light emitting parts, said reflecting plate being superposed on said reflective sheet pieces and bonded in this state to said reflective plate supports of said heat radiating plates, in a manner that the light emitting diodes protruded through said guide through-holes of said reflective sheet pieces are protruded through said guide openings to face the back side of said liquid crystal panel in combination with the rest of claim 1.

It is noted that the claim 1 is allowable because the unique combination of each and every specific element stated in the claim.

The prior art, either alone or in combination, does not disclose or render obvious a heat radiating section having a heat radiating plate formed of a metal material having heat conductivity, in which a major surface of the heat radiating plate base is formed with a substrate fitting part for carrying said interconnection substrates side-by-side on the same co-axial line in the lengthwise direction and in which said substrate fitting part

is formed as one with reflective plate supports along the lateral sides of said substrate fitting part; and a reflecting plate including a plurality of reflective sheet pieces and a reflecting plate, said reflective sheet pieces each being formed from a sheet with reflecting properties to the shape of a rectangle having a length corresponding to a preset number of said light emitting diodes and a width smaller than the width of said heat radiating plate, said reflective sheet pieces each being provided with a large number of guide through-holes on the same axial line, through which are passed the light emitting pars of said light emitting diodes, said reflecting plate being formed by a plate member formed to an outer shape approximately equal to that of said liquid crystal panel, said reflecting plate having a plurality of rows of guide through-holes through which are passed light emitting parts of said light emitting diodes, said rows being each registering with said light emitting arrays; said reflecting sheet pieces being mounted from one light emitting unit to another as said light emitting parts of said light emitting diodes are protruded through said guide through-holes facing the light emitting parts; said reflecting plate being superposed on said reflective sheet pieces and bonded to said reflective plate supports of each heat radiating plate as said light emitting diodes protruded from said guide through-holes are protruded through said guide openings in combination with the rest of claim 6.

It is noted that the claim 6 is allowable because the unique combination of each and every specific element stated in the claim.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael P. Mooney whose telephone number is 571-272-2422. The examiner can normally be reached during weekdays, M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank G. Font can be reached on 571-272-2415. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

Art Unit: 2883

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Michael P. Mooney  
Examiner  
Art Unit 2883



Frank G. Font  
Supervisory Patent Examiner  
Art Unit 2883

FGF/mpm  
9/26/07